



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,511	02/10/2004	Liao Sheng Hsin	MR1957-847	8698
4586	7590	08/24/2004	EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043				NGUYEN, PHUONGCHI T
		ART UNIT		PAPER NUMBER
		2833		

DATE MAILED: 08/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/774,511	HSIN, LIAO SHENG	
	Examiner Phuongchi Nguyen	Art Unit 2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) 10 and 11 is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_.

KW

## DETAILED ACTION

### *Specification*

1. The application reveals that it includes terminology, which is so different from that which is generally accepted in the art to which this invention pertains that a proper search of the prior art cannot be made. For example: “a transferring element” (30 is made of an insulating material, such as plastic) of specification on page 5, line 7 and claim 1, lines 5 is a rear hooker or rear holder.

Applicant is required to provide a clarification of these matters or correlation with art-accepted terminology so that a proper comparison with the prior art can be made. Applicant should be careful not to introduce any new matter into the disclosure (i.e., matter which is not supported by the disclosure as originally filed).

### *Drawings*

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, “a connector having the connector being inserted from a rear end of the insulating housing... and the connector is fastened in the inside of the insulating housing, the terminals being pressed into the line grooves for electrically connecting with the conductive lines“ must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

### *Claim Rejections - 35 USC § 112*

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1, lines 5-7, what is the meaning of “the transferring element is moveably adjusted at a predetermined position on the insulating housing due to the standard transfer”.

Claim 9, lines 4-5, it is unclear how can “the connector” being inserted from a rear end of its insulating housing? The rejection based on the best understood.

Claim 10, line 2, is “the connector” (referred from claim 9) is the transferring element?

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –  
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-2, 6, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Goodrich et al (US6454590B1).

In regarding to claim 1, Goodrich et al discloses a plug connector comprising an insulating housing (12) having a plurality of terminal grooves (22) formed in a front end (adjacent 50) thereof; a plurality of terminals (it is inherent) respectively arranged in the terminal grooves (22); and a transferring element (14) coupled on the insulating housing (12), wherein the transferring element (14) is moveably adjusted at a predetermined position on the insulating housing (12).

In regarding to claim 2, Goodrich et al discloses the plug connector further comprising a plurality of conductive lines (it is inherent) (conductive wires connected to terminals from the rear of the housing 12) penetrating into a rear end (opposite to 50) of the insulating housing (12), wherein the conductive lines (wires) electrically connect with the terminals (it is inherent), respectively.

In regarding to claim 6, Goodrich et al discloses the plug connector further comprising a positioning mechanism (30, 32, 54, 52, 56) arranged between the transferring element (14) and the insulating housing (12) for enabling the transferring element (14) to position at a first

position (where 14 initially being stopped by the elements 32, 30) or a second position (where 14 inserted farther when latch 54 being locked on the bar 56 at the catch surface 52).

In regarding to claim 8, Goodrich et al discloses the plug connector wherein the transferring element (14) has a main body (adjacent 38) and two arms (40) formed on two sides of the main body (adjacent 38), the main body (adjacent 38) has a receiving opening (38) therein, and the transferring element (14) is coupled on the insulating housing (12) via the receiving opening (38).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 3-5 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goodrich et al (US6454590B1) in view of Hutchins (US4714440).

In regarding to claims 3 and 5, Goodrich et al discloses the invention, but lacks a rear connector. However, Hutchins teaches (figures 1 and 3) the plug connector (30) further comprising a connector/jack (33) connected to a rear end of the insulating housing (of 81), wherein the connector (33) electrically connects with the terminals (37) (figure 5). It would have been obvious to one having ordinary skill at the time the invention was made to modify the plug connector of Goodrich et al by having a rear connector as taught by Hutchins for expanding the plug connector.

In regarding to claim 4, Goodrich et al discloses the invention, but lacks a rear plug. It would have been obvious to one having ordinary skill at the time the invention was made to

modify the plug connector of Goodrich et al by having a rear connector as taught by Hutchins to be a rear plug for connecting the plug to plug connector.

In regarding to claim 9, Goodrich et al discloses the invention, but lacks a rear connector. However, Hutchins teaches a connector (33) having a plurality of conductive lines (142) penetrating into an inside of the connector (33), the connector (33) having the plurality of line grooves (101), the conductive lines (142) being inserted into the line grooves (101) from a rear end of the connector (33), and the (body 72) of the connector being inserted from a rear end of the insulating housing (of 33), whereby the connector (33) and with the conductive lines (142) are extended into an inside of the insulating housing (of 33), and the connector (33) is fastened in the inside of the insulating housing (of 33). It would have been obvious to one having ordinary skill at the time the invention was made to modify the plug connector of Goodrich et al by having a rear connector as taught by Hutchins for having an extra connector on another end.

*Allowable Subject Matter*

8. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

9. Claims 10-11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

10. The following is a statement of reasons for the indication of allowable subject matter:

In regarding to claim 7, none of prior art teaches or suggest a plug connector comprising a plurality of protrusions formed at a front and a rear position of the transferring element. In the first position, the protrusions of the transferring element are respectively hooked into the slots in

the middle and rear positions of the housing, and in the second position, the protrusions of the transferring element are respectively hooked into the slots in the middle position and two front edges of the housing.

In regarding to claim 10, none of prior art teaches or suggest a plug connector comprising the protection element of the transferring element is arranged on an outside of the tongue element of the insulating housing; when the connector and the insulating housing are combined together.

*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchi Nguyen whose telephone number is (571) 272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PCN

July 28 2004



ROSS GUSHI  
PRIMARY EXAMINER